BULLETIN
of the Psychonomic Society

Debra J. Chambers, *Managing Editor*
Janis Dorough Foster, *Assistant to Managing Editor*
Ellen Woodard, *Business Manager*

Volume 25

Published bimonthly by
THE PSYCHONOMIC SOCIETY, Inc., 1710 Fortview Road, Austin, Texas 78704
Publication No. 070630 (ISSN 0090-5054)
Second Class Postage paid at Austin, Texas 78710
Copyright 1987 by THE PSYCHONOMIC SOCIETY, Inc.

STAFF IN AUSTIN

Chris Bezoff
Laura Crow
Lana Dieterich
Anne Dossett
Dreanne M. Grenier
Christina Jackson
Claudia McNutt
Jean S. Morgan
Diane Motz
Gerard B. Pringle
Michael Slattery
Susan Sparks
Ray Don Tilley
Gail Tosto-Geiger
C. E. Wheeless

CONTENTS OF VOLUME 25

Albert, M. See Davis, H.

Allan, L. G., & Tirimacco, N. **An orientation-contingent achromatic aftereffect** 54

Allen, J. L. See Moriarty, D. D., Jr.

Almaguer, L. L. See Weinstein, L.

Anderson, J. T. See Tyrrell, D. J.

Andrulot, J. See Siegel, P. S.

Anger, D. **The balance equation: Part 1. Response-specific inhibition and the operant-contingency puzzles** 468

Angermeier, W. F., McLean, J., Minvielle, D., & Grue, C. **Food-rewarded operant learning in the guinea pig** 292

Angermeier, W. F., McLean, J., Minvielle, D., & Grue, C. **Food-rewarded operant learning in the opossum** 23

Babb, H. See Matthews, M. D.

Bakker, D. See Russell, P. N.

Bardo, M. T. See Miller, J. S.

Barr, N. J. See Gargiulo, R. M.

Baruch, I. See Lubow, R. E.

Beatty, J. See Tobach, E.

Beatty, W. W., & Bruellman, J. A. **Absence of gender differences in memory for map learning** 238

Bellezza, F. S. **Reliability of retrieving information from knowledge structures in memory: Self information** 407

Benham, A. E. See Stine, E. L.

Besner, D. See Rynard, D.

Black, K. J., & Payne, R. B. **Reminiscence theories and postrest decrements** 419

Blanchard, H. E. **The effects of pronoun processing on information utilization during fixations in reading** 171

Blevins-Knabe, B., Cooper, R. G., Starkey, P., Mace, P. G., & Leitner, E. **Preschoolers sometimes know less than we think: The use of quantifiers to solve addition and subtraction tasks** 31

Bowers, C. A. See Kingsberg, S. A.

Bradbury, A. See Tyrrell, D. J.

Bradford, S. A. See Davis, H.

Bransford, J. D. See Perfetto, G. A.

Bronstein, P. M. ***Betta splendens*: Familiarity with visual cues fails to produce a prior-residence effect** 296

Bruce, K., & Estep, D. **Body weight regulation and gonadal hormone manipulations in female Eastern chipmunks** 20

Bruellman, J. A. See Beatty, W. W.

Budohoska, W. See Szelag, E.

Bunnell, T. See Dooling, R. J.

Burns, R. A., & Sanders, R. E. **Concurrent counting of two and three events in a serial anticipation paradigm** 479

Buskist, W., & Miller, H. L., Jr. **Effects of lithium chloride illness on food preference in pigeons: A concurrent operants procedure for the study of food-aversion learning** 394

Calhoon, S. K. See Siegel, P. S.

Campbell, J. B. **Student-generated personality scales** 277

Carlton, L. G., & Newell, K. M. **Response production factors and reaction time** 373

Carvajal, H., Hardy, K., Harmon, K., Sellers, T. A., & Holmes, C. B. **Relationships among scores on the Stanford-Binet IV, Peabody Picture Vocabulary Test-Revised, and Columbia Mental Maturity Scale** 275

Case, T. J. S. See Honeck, R. P.

Chance, J. E., & Goldstein, A. G. **Retention interval and face recognition: Response latency measures** 415

Chiappetta, J., Monti, L. A., & O'Connell, D. C. **Pause perception: Some cross-linguistic comparisons** ... 103

Chiszar, D. See Cruz, E.

Clifford, R. E. See Ross, J. L.

Clubb, M. See Tyrrell, D. J.

Cohen, S. L., & Crouse, M. S. **Failure to find anti-anxiety properties of cholecystokinin-octapeptide** 204

Cohen, S. L. See Crouse, M. S.

Collyer, C. E. **An angle-distribution effect in mental rotation** 189

Conner, R. L. See McKeever, W. F.

Cook, A. See Thorne, B. M.

Cook, R. G. See Shyan, M. R.

Cooper, R. G. See Blevins-Knabe, B.

Coren, S. **Searching for genetic markers for specific behaviors: A group technique to assess fingerprint patterns** 82

Corkill, A. See Timme, V.

Corral, G. See Foos, P. W.

Courtney, M. See Telage, K. M.

Cox, W. M., Klinger, E., & Kemble, E. D. **The effect of ethanol on activity level following reward shift** 286

Crouse, M. S., & Cohen, S. L. **Memory for patterning under a fixed-interval schedule of reinforcement** 5

Crouse, M. S. See Cohen, S. L.

Cruz, E., Gibson, S., Kandler, K., Sanchez, G., & Chiszar, D. **Strike-induced chemosensory searching in rattlesnakes: A rodent specialist (*Crotalus viridis*) differs from a lizard specialist (*Crotalus pricei*)** .. 136

Da Silva, J. A., Marques, S. L., & Ruiz, E. M. **Subject differences in exponents of psychophysical power functions for inferred, remembered, and perceived area** 191

Da Silva, J. A., Ruiz, E. M., & Marques, S. L. **Individual differences in magnitude estimates of inferred, remembered, and perceived geographical distance** 240

Davey, G. C. L. **Thermal reinforcement in the rat: The topography of operant leverpressing** 207

Davidson, D. See Kallman, H. J.

Davis, H., & Albert, M. **Failure to transfer or train a numerical discrimination using sequential visual stimuli in rats** 472

Davis, H., & Bradford, S. A. **Simultaneous numerical discriminations by rats** 113

Davis, J. See Greist-Bousquet, S.

Davis, S. F., Grover, C. A., & Erickson, C. A. **A comparison of the aversiveness of denatonium saccharide and quinine in humans** 462
Davis, S. F. See Langley, W. M.
De Boo, R. See Koele, P.
de Man, A. See Weinstein, L.
Denmeade, P. See Telage, K. M.
Deyo, R. A. See McKeever, W. F.
Dollinger, S. J., Greening, L., & Lloyd, K. **The "mirror" and the "mask": Self-focused attention, evaluation anxiety, and the recognition of psychological implications** 167
Dooling, R. J., Soli, S. D., Kline, R. M., Park, T. J., Hue, C., & Bunnell, T. **Perception of synthetic speech sounds by the budgerigar (*Melopsittacus undulatus*)** 139
Dooling, R. J., Soli, S. D., Kline, R. M., Park, T. J., Hue, C., & Bunnell, T. **Erratum** 227
Donohoe, T. See Thorne, B. M.
Eberhardt, M. J. See Halas, E. S.
Eisenman, R. **Creativity, birth order, and risk taking** 87
Eisenman, R. **Sexual acting out: Diagnostic category or moral judgment?** 387
Eisenman, R. See Ross, J. L.
Eisenman, R. See Stahler, G. J.
Elkins, R. L. See Harrison, W. R.
Elwin, E. K. See Moriarty, D. D., Jr.
Erickson, C. A. See Davis, S. F.
Estep, D. See Bruce, K.
Farris, H. See Murray, J.
Firment, M. See Honeck, R. P.
Flannelly, K. J., & Kemble, E. D. **The effect of pup presence and intruder behavior on maternal aggression in rats** 133
Foos, P. W., Sabol, M. A., Corral, G., & Mobley, L. **Age differences in primary and secondary memory** 159
Franchina, J. J. **Interaction of ethanol and congener contents in aversion conditioning to alcoholic beverages in rats** 9
Franks, J. J. See Kasserman, J. E.
Franks, J. J. See Perfetto, G. A.
Frazer, C. G. See Swanson, H. L.
Gaito, J. **Confusion of empirical and statistical aspects that lead to controversy** 283
Gargiulo, R. M., O'Sullivan, P. S., & Barr, N. J. **Learned helplessness in reflective and impulsive mentally retarded and nonretarded children** 269
Geary, D. C. **Cognitive addition: On the convergence of statistical and conceptual models** 427
Gibson, S. See Cruz, E.
Glover, J. A. See Timme, V.
Goldstein, A. G. See Chance, J. E.
Goldstein, M. L. See Wolfgram, C.
Gollin, E. S., & Sharps, M. J. **Visual perspective-taking in young children: Reduction of egocentric errors by induction of strategy** 435
Gollub, D., & Healy, A. F. **Word recall as a function of sentence generation and sentence context** 359
Gray, P. H. **Thomas Morton as America's first behavioral observer (in New England 1624-1646)** .. 69
Greening, L. See Dollinger, S. J.
Greist-Bousquet, S., Davis, J., & Schiffman, H. R. **Another look at age trends in the Poggendorff illusion: Real or illusory?** 441
Grover, C. A. See Davis, S. F.
Grover, C. A. See Langley, W. M.
Grue, C. See Angermeier, W. F. (2)
Gugerty, L. J. See Kerst, S. M.
Hagenmeyer-Houser, S. H. See Russell, K. H.
Haggbloom, S. J., & Thomas, D. H. **Serial learning at one trial per day: Effects of interrun interval and interrun interval shifts** 391
Halas, E. S., & Eberhardt, M. J. **Blocking and appetitive reinforcement** 121
Hall, J. W., Owens, W. L., & Wilson, K. P. **Presentation rates and keywords in vocabulary learning** .. 179
Hang, D. See Schnur, P.
Hansen, E. See Klein, R.
Hardy, K. See Carvajal, H.
Harmon, K. See Carvajal, H.
Harris, R. J., Thompson, M. A., & Stoltz, S. **Social cognition in the breadbasket: The effect of schematic information about farmers on farmers' and nonfarmers' memory for stories** 155
Harrison, W. R., & Elkins, R. L. **A multisubject rotational stimulator for taste-aversion induction** 213
Hayward, J. A., & Strongman, K. T. **Emotional words, free recall, and laterality** 161
Healy, A. F. See Gollub, D.
Heller, M. A. **Improving the passive tactile digit span** 257
Hellige, J. B. See Taylor, A. T.
Hemphill, J. See Winer, G. A.
Heppner, C. C., & Kemble, E. D. **Effects of food deprivation on ethanol preference and ingestion by male and female rats** 126
Hine, T. **Subjective contours produced purely by dynamic occlusion of sparse-points array** 182
Holmes, C. B. See Carvajal, H.
Honeck, R. P., Firment, M., & Case, T. J. S. **Expertise and categorization** 431
Howard, J. H., Jr. See Kerst, S. M.
Hue, C. See Dooling, R. J.
Hynan, M. T. See Lindner, D.
Iding, M. See Murray, J.
Jitsumori, M. See Shyan, M. R.
Joyce, E. See Kallman, H. J.
Kallman, H. J., Davidson, D., & Joyce, E. **A right-ear advantage for perception of graveness in monaural processed speech** 195
Kandler, K. See Cruz, E.
Kasserman, J. E., Yearwood, A. A., & Franks, J. J. **Contextual priming effects in perceptual identification** 233
Kelly, K. S. See Miller, J. S.
Kemble, E. D. See Cox, W. M.
Kemble, E. D. See Flannelly, K. J.
Kemble, E. D. See Heppner, C. C.
Keren, G., & Wagenaar, W. A. **Temporal aspects of probabilistic predictions** 61
Kerst, S. M., Howard, J. H., Jr., & Gugerty, L. J. **Judgment accuracy in pair-distance estimation and map sketching** 185
King, D. L. **The exemplars of a strong whole were rated as more similar than were the exemplars of a weak whole** 51
Kingsberg, S. A., LaBarba, R. C., & Bowers, C. A. **Sex differences in lateralization for spatial abilities** .. 247
Kirchner, P. B. See Van De Water, D. A.
Klein, R., & Hansen, E. **Spotlight failure in covert visual orienting** 447
Kline, R. M. See Dooling, R. J.
Klinger, E. See Cox, W. M.

Koele, P., De Boo, R., & Verschure, P. **Scoring rules and probability testing** 280
Koltuska, B. See Szelag, E.
Kontos, S. See Swanson, H. L.
Kowal, S., & O'Connell, D. C. **Some temporal aspects of stories told while or after watching a film** 364
Kurtz, S. L. See Pasnak, R.
LaBarba, R. C. See Kingsberg, S. A.
Langley, W. M., Theis, J., Davis, S. F., Richard, M. M., & Grover, C. A. **Effects of denatonium saccharide on the drinking behavior of the grasshopper mouse (*Onychomys leucogaster*)** 17
Lawless, H. T. **An olfactory analogy to release from mixture suppression in taste** 266
Leitner, E. See Blevins-Knabe, B.
Levin, I. P. **Associative effects of information framing** 85
Ley, R., & Long, K. **A distractor-free test of recognition and false recognition** 411
Lindner, D., & Hynan, M. T. **Perceived structure of abstract paintings as a function of structure of music listened to on initial viewing** 44
Linwick, D. See Papini, M.
Lloyd, K. See Dollinger, S. J.
Long, G. M., & Penn, D. L. **Dynamic visual acuity: Normative functions and practical implications** .. 253
Long, K. See Ley, R.
Lorch, E. P. **Perceived structure and the maintenance of attention** 47
Lovegrove, W. S. See Slaghuis, W. L.
Lovelace, E. **Attributes that come to mind in the TOT state** 370
Lubow, R. E., Weiner, I., Schlossberg, A., & Baruch, I. **Latent inhibition and schizophrenia** 464
Lyon, S. See Thorne, B. M.
Mace, P. G. See Blevins-Knabe, B.
Mady, L. A., & Newman, S. E. **Memory for auditorily and visually presented commercials: Effects of repetition and type of claim** 75
Mahmud, S. H. **Similar-orientation McCollough effect and the classical negative afterimage in a common adaptation process** 455
Mandler, G. See Overson, C.
Manning, S. K. **Attentional control of visual suffix effects** 423
Marques, S. L. See Da Silva, J. A. (2)
Masin, S. C. **Different biases in the methods of constant and single stimuli** 379
Masin, S. C. **The lightness of a transparent surface in Metelli's model of phenomenal transparency** 263
Masin, S. C., Mazzoni, G., & Vallortigara, G. **An experimental study of the alphabetical rating** 259
Matthews, M. D., & Babb, H. **Self-punitive behavior: Effects of number of massed acquisition trials and percentage of goal-shocked extinction trials** 475
Mazzoni, G. See Masin, S. C.
McCoy, D. F. See Miller, J. S.
McKeever, W. F., Rich, D. A., Deyo, R. A., & Conner, R. L. **Androgens and spatial ability: Failure to find a relationship between testosterone and ability measures** 438
McLean, J. See Angermeier, W. F. (2)
Medeiros, D. M. See Thorne, B. M.
Mendoza, D. L., & Ramirez, J. M. **Play in kittens (*Felis domesticus*) and its association with cohesion and aggression** 27
Miklosovic, K. L., & Panksepp, J. **Short- and long-term effects of asphyxia on juvenile play** 289
Miller, H. L., Jr. See Buskist, W.
Miller, J. S., McCoy, D. F., Kelly, K. S., & Bardo, M. T. **Within-compound associations between taste and contextual stimuli** 124
Minvielle, D. See Angermeier, W. F. (2)
Mobley, L. See Foos, P. W.
Monti, L. A. See Chiappetta, J.
Monti, L. A. See Van De Water, D. A.
Moriarty, D. D., Jr., Elwin, E. K., & Allen, J. L. **The effect of thirst on locomotor light escape in rats** 211
Moutzoukis, C. See Thorne, B. M.
Murofushi, K. See Tobach, E.
Murray, J., Iding, M., Farris, H., & Revlin, R. **Sample-size salience and statistical inference** 367
Newell, K. M. See Carlton, L. G.
Newman, S. E. See Mady, L. A.
Norman, K. L., & Schwartz, J. P. **Memory for hierarchical menus: Effects of study mode** 163
O'Connell, D. C. See Chiappetta, J.
O'Connell, D. C. See Kowal, S.
O'Connell, D. C. See Van De Water, D. A.
Osaka, N. **Memory psychophysics for pyridine smell scale** 56
O'Sullivan, P. S. See Gargiulo, R. M.
Overmier, J. B. See Papini, M.
Overson, C., & Mandler, G. **Indirect word priming in connected semantic and phonological contexts** ... 229
Owens, W. L. See Hall, J. W.
Panksepp, J. See Miklosovic, K. L.
Papini, M., Linwick, D., & Overmier, J. B. **Preconditioning exposure to contextual cues and the acquisition of the keypeck behavior in autoshaping by pigeons** 486
Park, T. J. See Dooling, R. J.
Pasnak, R., & Kurtz, S. L. **Brightness and size transposition by rhesus monkeys** 109
Payne, R. B. See Black, K. J.
Pemberton, E. **The drawing rules of children: Sequence and direction** 383
Penn, D. L. See Long, G. M.
Perfetto, G. A., Yearwood, A. A., Franks, J. J., & Bransford, J. D. **Effects of generation on memory access** 151
Powell, E. See Telage, K. M.
Prazdny, K. **An asymmetry in apparent motion of kinetic objects** 251
Prazdny, K. **On the coarse-to-fine strategy in stereomatching** 92
Predebon, J. **Familiar size and judgments of distance: Effects of response mode** 244
Ramirez, J. M. See Mendoza, D. L.
Rayner, K. See Slowiaczek, M. L.
Revlin, R. See Murray, J.
Rial, R. V., Saura, A., Todó, M. P., & Tur, J. A. **Barpress escape responses in the rat: A topographic analysis** 117
Rich, D. A. See McKeever, W. F.
Richard, M. M. See Langley, W. M.
Ross, J. L., Clifford, R. E., & Eisenman, R. **Communication of sexual preferences in married couples** 58
Ruiz, E. M. See Da Silva, J. A. (2)

Russell, K. H., Hagenmeyer-Houser, S. H., & Sanberg, P. R. **Haloperidol produces increased defecation in rats in habituated environments** 13
Russell, P. N., Bakker, D., & Singh, N. N. **The effects of kava on alerting and speed of access of information from long-term memory** 236
Rynard, D., & Besner, D. **Basic processes in reading: On the development of cross-case letter matching without reference to phonology** 361
Sabol, M. A. See Foos, P. W.
Sackhoff, J. See Weinstein, L.
Sanberg, P. R. See Russell, K. H.
Sanchez, G. See Cruz, E.
Sanders, R. E. See Burns, R. A.
Saura, A. See Rial, R. V.
Schiffman, H. R. See Greist-Bousquet, S.
Schlossberg, A. See Lubow, R. E.
Schnur, P., Hang, D., & Stinchcomb, A. **Naloxone antagonism of hyperactivity in morphine-treated hamsters** 482
Schwartz, J. P. See Norman, K. L.
Sellers, T. A. See Carvajal, H.
Sharps, M. J. See Gollin, E. S.
Shyan, M. R., Wright, A. A., Cook, R. G., & Jitsumori, M. **Acquisition of the auditory *same/different* task in a rhesus monkey** 1
Siegel, P. S., Andrulot, J., & Calhoon, S. K. **The effect on categorical ratings of personal descriptors with list length as a potential context effect** 79
Singh, N. N. See Russell, P. N.
Slaghuis, W. L., & Lovegrove, W. S. **The effect of field size and luminance on spatial-frequency–dependent visible persistence and specific reading disability** 38
Slowiaczek, M. L., & Rayner, K. **Sequential masking during eye fixations in reading** 175
Smith, A. D. See Stine, E. L.
Smith, D. A. See Winer, G. A.
Soli, S. D. See Dooling, R. J.
Stahler, G. J., & Eisenman, R. **Psychotherapy dropouts: Do they have poor psychological adjustment?** ... 198
Starkey, P. See Blevins-Knabe, B.
Stinchcomb, A. See Schnur, P.
Stine, E. L., Benham, A. E., & Smith, A. D. **Visual and semantic organization in picture recall** 89
Stoltz, S. See Harris, R. J.
Strongman, K. T. See Hayward, J. A.
Swanson, H. L., Kontos, S., & Frazer, C. G. **Intellectually gifted and nongifted children's inference from partial knowledge** 35
Szelag, E., Budohoska, W., & Koltuska, B. **Hemispheric differences in the perception of gratings** 95
Takahashi, J. See Tobach, E.
Taylor, A. T., & Hellige, J. B. **Effects of retinal size on visual laterality** 444
Telage, K. M., Powell, E., Denmeade, P., & Courtney, M. **Oral vibrotactile screening: Reliability of low-frequency lingual vibrotactile thresholds obtained for two baseline conditions** 451
Theis, J. See Langley, W. M.
Thomas, D. H. See Haggbloom, S. J.
Thompson, M. A. See Harris, R. J.
Thorne, B. M., Cook, A., Donohoe, T., Lyon, S., Medeiros, D. M., & Moutzoukis, C. **Aluminum toxicity and behavior in the weanling Long-Evans rat** 129
Timme, V., Corkill, A., & Glover, J. A. **Decisions following reading and bias in recall** 77
Tirimacco, N. See Allan, L. G.
Tobach, E., Murofushi, K., Beatty, J., & Takahashi, J. **Changes in social behavior of *Macaca fuscata yakui* in relation to unfamiliar objects** 106
Todó, M. P., See Rial, R. V.
Tur, J. A. See Rial, R. V.
Tyrrell, D. J., Anderson, J. T., Clubb, M., & Bradbury, A. **Infant recognition of the correspondence between photographs and caricatures of human faces** 41
Vallortigara, G. See Masin, S. C.
Van De Water, D. A., Monti, L. A., Kirchner, P. B., & O'Connell, D. C. **Speaking and writing: Comparisons of two psycholinguistic siblings** 99
Van De Water, D. A., Monti, L. A., Kirchner, P. B., & O'Connell, D. C. **Erratum** 406
Verschure, P. See Koele, P.
Wagenaar, W. A. See Keren, G.
Weiner, I. See Lubow, R. E.
Weinstein, L. **Good teachers are needed?** 273
Weinstein, L., & Almaguer, L. L. **"I'm bored!"** 389
Weinstein, L., & de Man, A. **U.S. students do not know as much as foreign students about the world** 202
Weinstein, L., & Sackhoff, J. **Adler is right** 201
White, M. J. **Big bangs in perception: The most often cited authors and publications** 458
Wilson, K. P. See Hall, J. W.
Winer, G. A., Smith, D. A., & Hemphill, J. **Responding to incongruous questions: Effects of making reference to pictures on items referring to related versus unrelated terms** 377
Wolfgram, C., & Goldstein, M. L. **The search for the physical basis of memory** 65
Wright, A. A. See Shyan, M. R.
Yearwood, A. A. See Perfetto, G. A.
Yearwood, A. A. See Kasserman, J. E.

Announcements and Notices:

Abstracts of All Psychonomic Society Journal Articles Published in the *Bulletin of the Psychonomic Society* 46
Call for Papers: Society for Computers in Psychology 228
Call for Papers/Workshops: XXIV International Congress of Psychology 150
11th European Conference on Visual Perception 310
Fechner Centennial Symposium on Foundational Problems of Psychophysics 150
Fourth International Symposium on Aviation Psychology 150
Psychonomic Society Publication Office Address Change 309
Seeing Contour and Color: Third International Symposium of the Northern Eye Institute 150
17th Annual Meeting: Society for Computers in Psychology 228
Student Paper Competition: Society for Computers in Psychology 228
28th Annual Meeting of the Psychonomic Society ... 227

Preparing Figures and Illustrations for Psychonomic Society Publications 73
Preparing Tables for Psychonomic Society Publications 74
Program for the Psychonomic Society 28th Annual Meeting 311